

NORMAN W. JOHANSON
Product Design & Manufacturing

PROFESSIONAL EXPERIENCE

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ROBSON FORENSIC, INC (Forensic Engineering)
Associate 1995-present
Provide technical investigations, analysis, reports, and testimony for failure analysis, and towards the resolution of commercial and personal injury litigation involving product liability or mechanical and industrial incidents.

NJ TECHNOLOGY (Product Design and Development)
Engineering Manager 1992-1995
Product development for the consumer products, pharmaceutical, medical and semi-conductor process equipment fields. Prepare feasibility studies; bid document preparation; bidding and client negotiation; program management; and financial administration.

MATERIALS RESEARCH CORPORATION (Semiconductor Process Equipment)
Manager of Manufacturing Engineering 1991-1992
Managed engineering functions for production of complex semiconductor process equipment. Responsible for: facility design; maintenance & upgrade work; specification development; contractor negotiations; document preparation; factory safety inspection; documentation preparation; revisions and maintenance; support of field engineering; new equipment startup.

EMCORE CORPORATION (Semiconductor Process Equipment)
Development Group Manager 1988-1990
Handled all product development. HazMat trained; worked with variety of toxic and flammable chemicals in solid, liquid and gaseous form. Responsibilities included: monitoring contaminant levels during equipment operation; contaminant cleanup; and safety engineering.

S. F. PRODUCTS CORPORATION (High-Temperature Research Equipment)
U.S. General Manager 1984-1988
Designed & produced custom high temperature equipment. Reviewed safety issues, developed hazardous gas handling, thermal safety shields, and electrical interlock controls for equipment.

FARBERWARE (Appliances, Housewares, and Cookware)
Director of Engineering 1981-1984
Design and development of consumer and commercial appliances, housewares, and cookware; developed production safety testing equipment; oversaw equipment upgrades, safety device installation, and safe operating practice training; worked closely with customer service in reviewing field failures, safety issues, and litigation; developed specialized functional and safety

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testing methods. Company representative to Cookware Manufacturer's Association; participated in industry-wide reviews of product and manufacturing process safety issues such as carpal-tunnel syndrome and toxicity of painting and enameling compounds.

EXXON ENTERPRISES, INC. (Ink Jet Printing Equipment)
Electro-Mechanical Department Manager 1977-1981
Managed engineering, design, and fabrication of office and computer peripheral products.
Developed production methods & equipment for production of complex printer products.

APPLIANCE HEATER CORPORATION (Heater and Heating Elements Production)
Operations Manager 1974-1977
Developed custom machining equipment, performed all machining, stamping, forming, and thermal processing operation on steel, copper alloy, aluminum, and high temperature metals.
Performed powder fill, compaction, and sealing processes. Performed failure analysis work.

HAMILTON BEACH, Division of SCOVILL MFG. CO. (Small Household Appliances)
Engineering Project Manager 1971-1974
Responsible for design, development, and product line engineering of appliance products.
Conducted "Reverse Engineering" evaluation of competitive appliances. Tested products under normal and abnormal conditions to ascertain safety and reliability. Developed and supervised product test procedures.

THE KANTHAL CORPOATION (Wire Products and Heater Manufacturing)
Laboratory Engineer 1965-1971
Managed application engineering, product testing, failure analysis, customer support, and metallurgical evaluation functions. Chemical testing and control of descaling, etching, bright dipping, and wire coating baths. Set up thermocouple calibration facility. Participated in American Standards & Testing (ASTM) committee activities.

ZELL PRODUCTS CORPORATION (Hermetic Sealing Semiconductor Packaging)
Inspection Dept. Supervisor, Project Engineer, R&D Engineer 1959-1965
Supervised Inspection Department, conducted process development on glass- and ceramic-to-metal sealing operation, participated in ASTM committee standards work, designed new products and conducted scientific studies of oxide formation, glass formulation, and alloy customization for optimum sealing performance.

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CERTIFIED MANUFACTURING ENGINEER, in the field of Product Engineering for
Manufacturing, by the Society of Manufacturing Engineers Certified in 1977

PRIVATE INVESTIGATOR,
States of Pennsylvania, New Jersey, New York and West Virginia

EDUCATION

Bridgeport Engineering Institute, Bridgeport, CT - B.S., Mechanical Engineering	1973
Hawthorne School of Aeronautics, Moultrie, GA - Completion Certification	1959

Many Continuing Education programs, including:

Concurrent Engineering	Cluster Tool Technology
Computer-Aided Design	Fukuda Techniques
Interactive Management	Investigation of Gas & Electric Appliance Fires
Product Development	Statistical Process Control
Theory of Constraints	Total Quality Management
ISO-9000	Quality Assurance
Vacuum Technology	HazMat Training
Presentation Techniques	Business Law
NFPA 921	

AFFILIATIONS

American Society of Mechanical Engineers
American Society of Safety Engineers
American Society for Metals
National Fire Protection Association
Society of Manufacturing Engineers
Society of Fire Protection Engineers
Pennsylvania Association of Arson Investigators